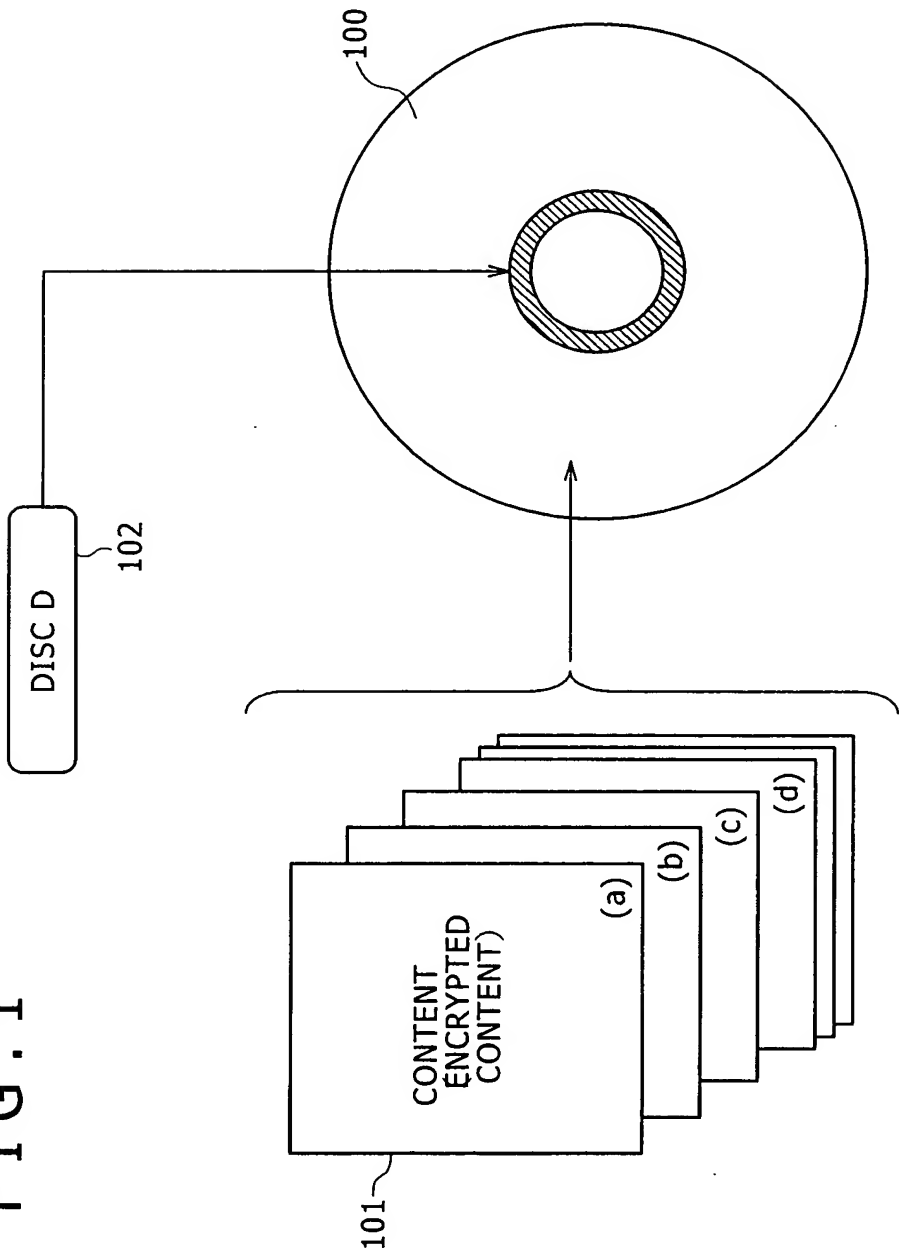
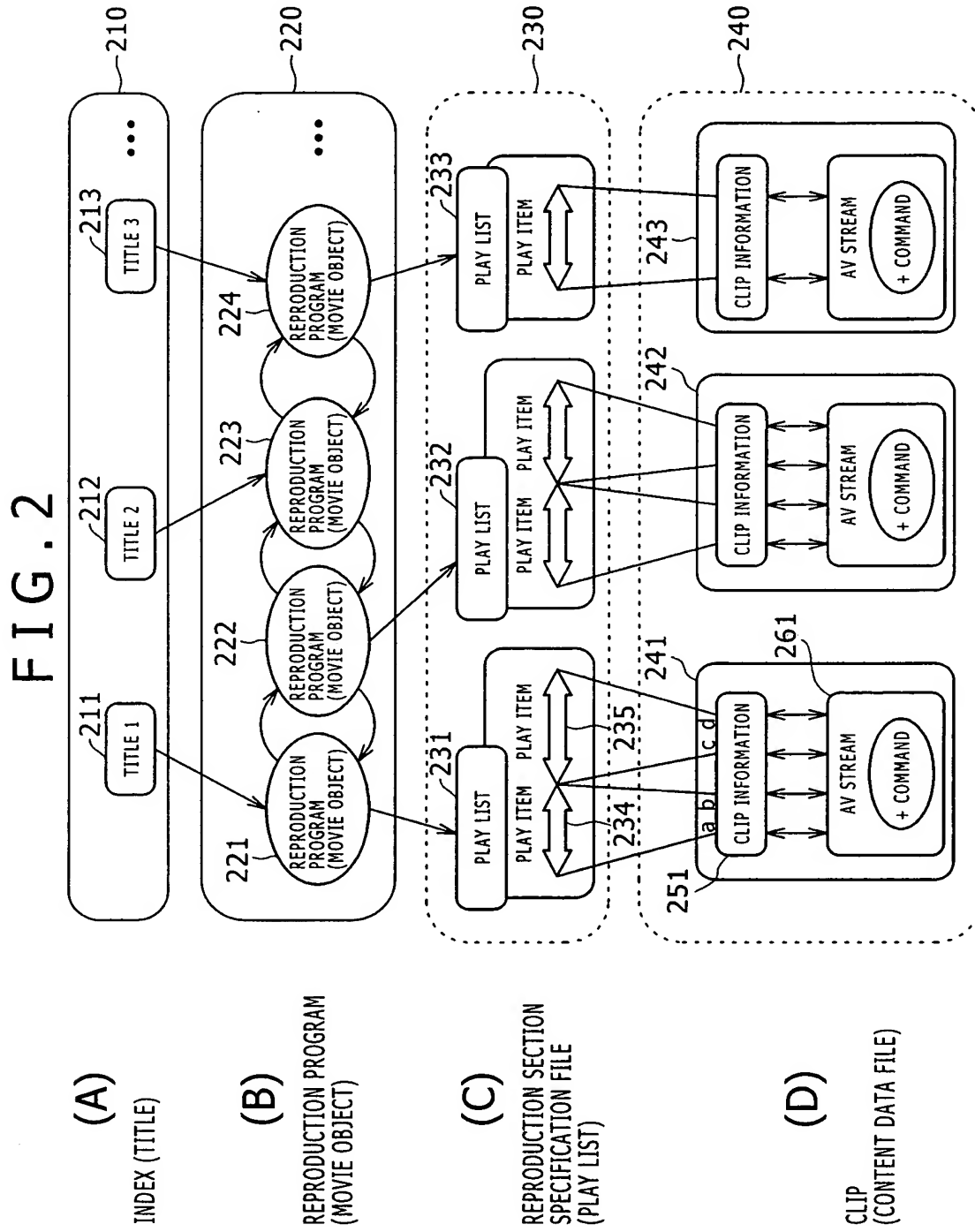


FIG. 1

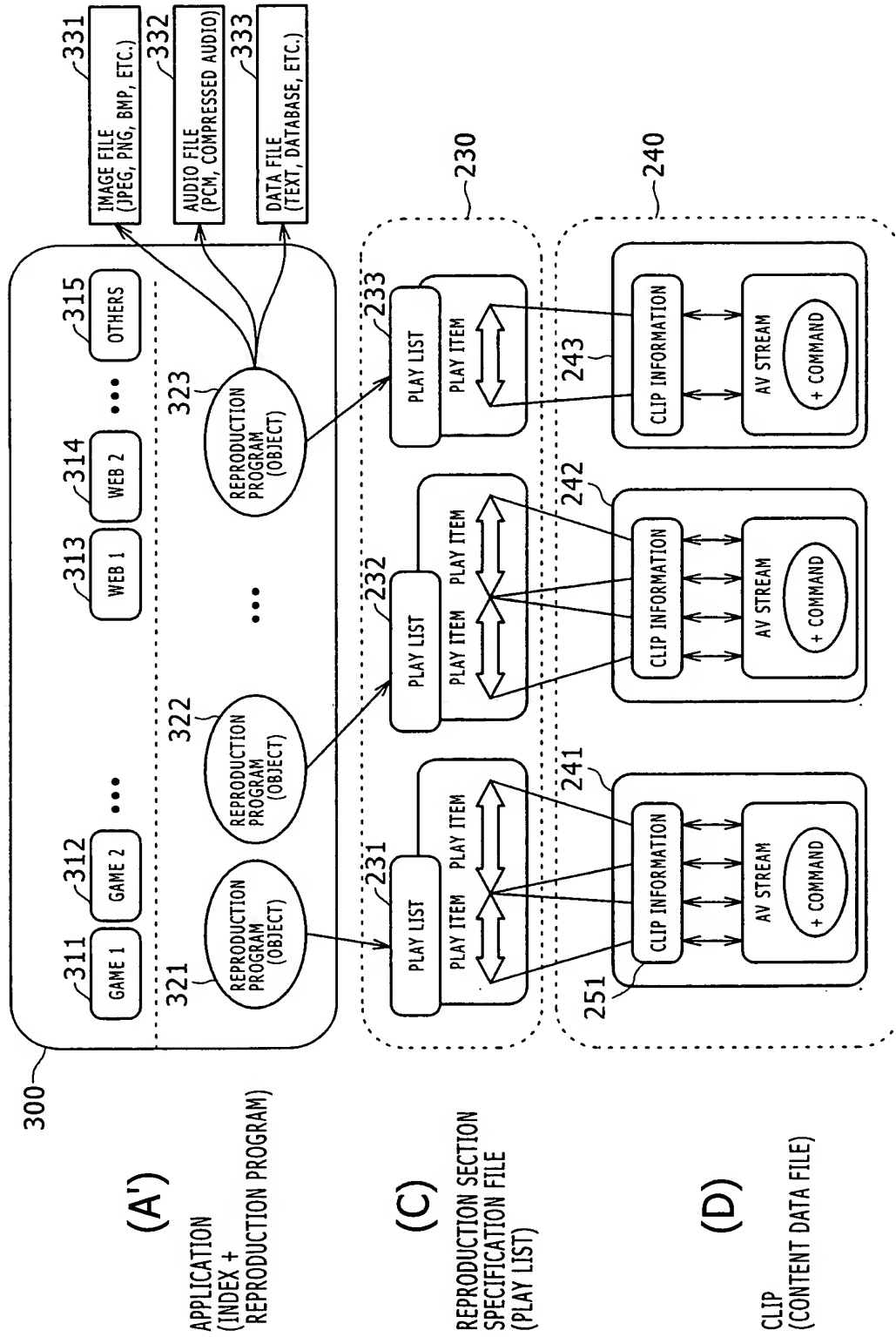


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FIG. 3



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FIG. 4

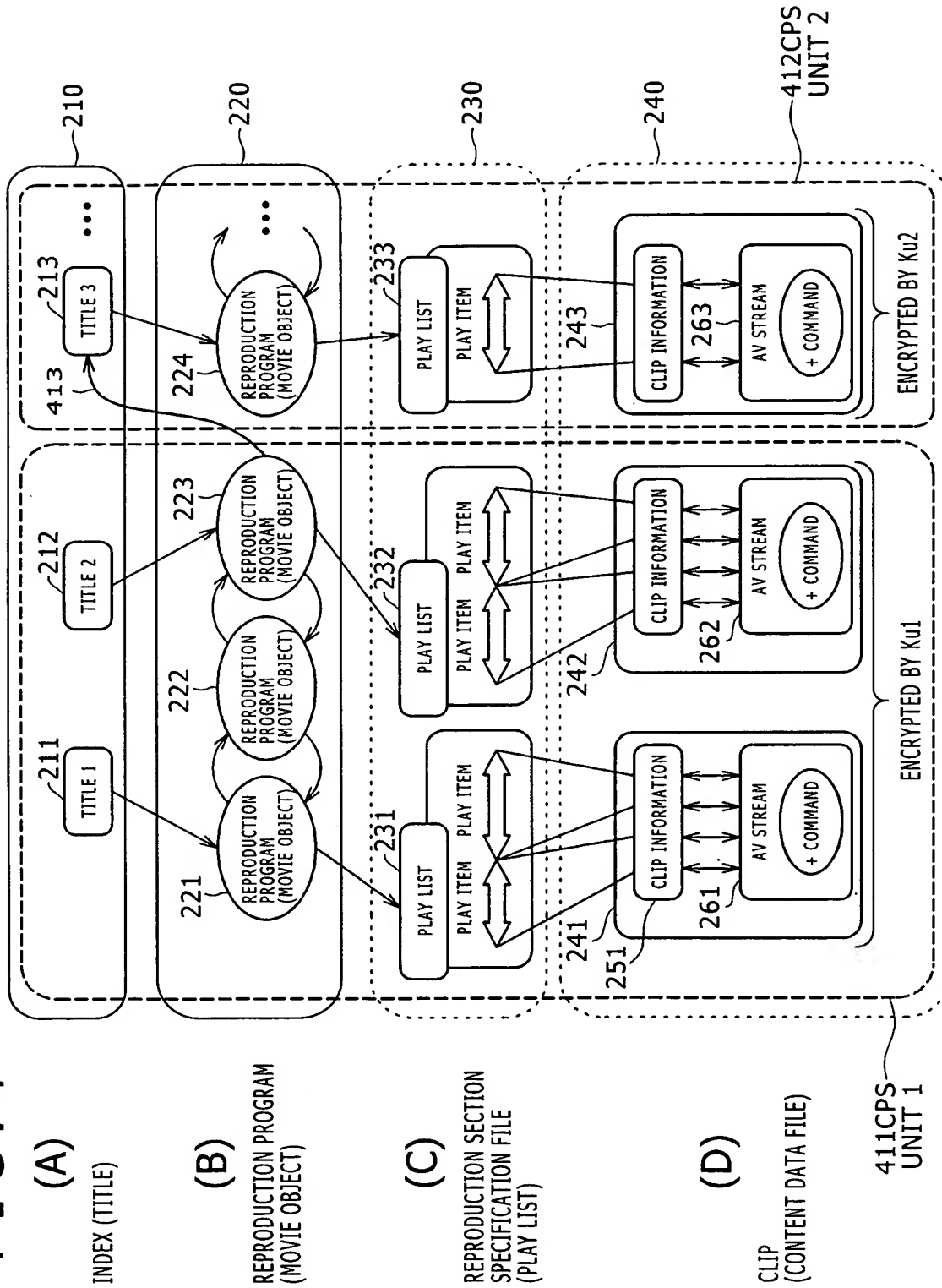
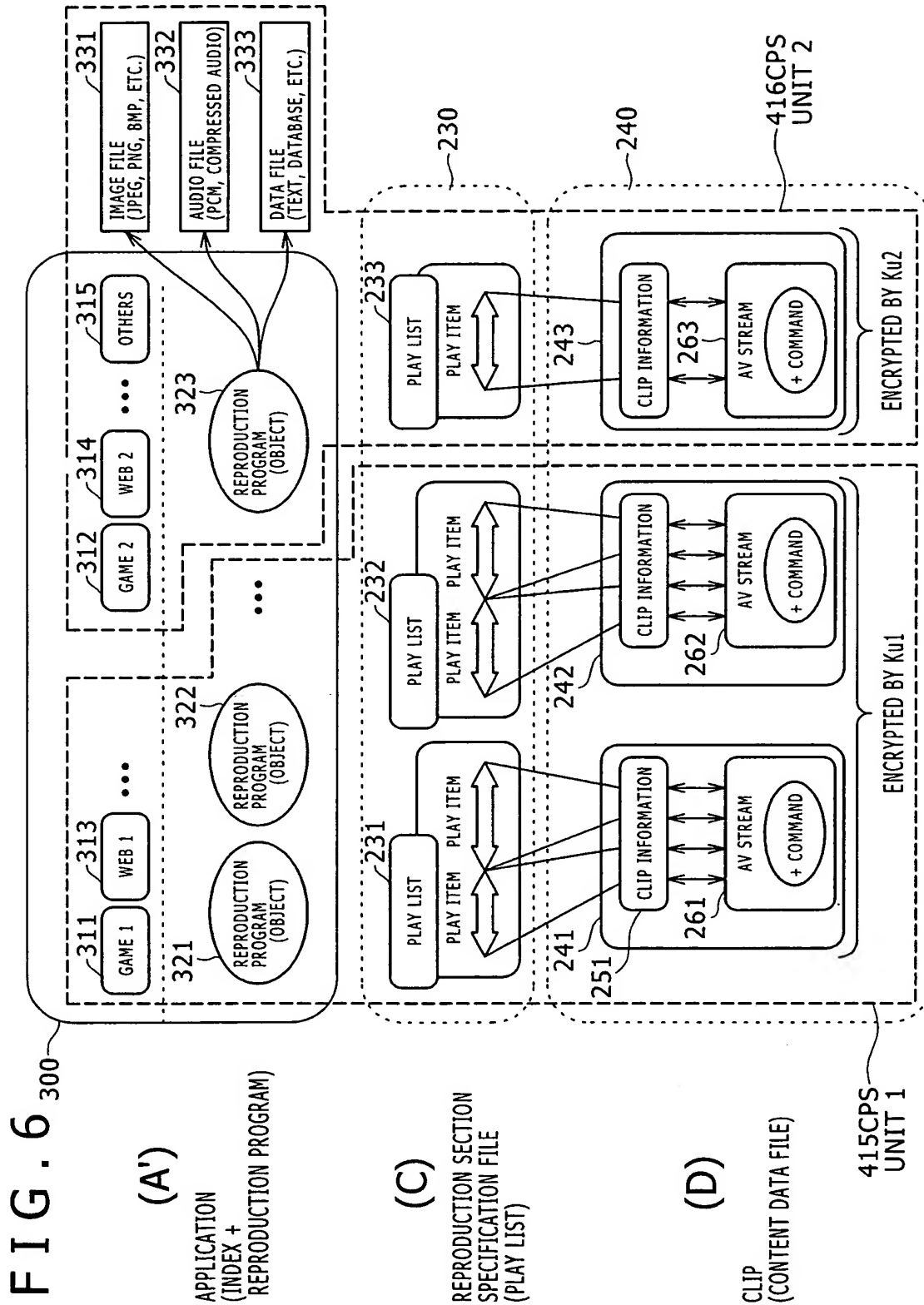


FIG. 5

| TITLE   | CONTENT<br>MANAGEMENT<br>UNIT (CPS) | UNIT KEY<br>(CPS) |
|---------|-------------------------------------|-------------------|
| TITLE 1 | CPS1                                | Ku1               |
| TITLE 2 | CPS1                                | Ku1               |
| TITLE 3 | CPS2                                | Ku2               |
| ⋮       | ⋮                                   | ⋮                 |
| TITLE n | CPSm                                | Kum               |

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FIG. 7

| APPLICATION<br>INDEX | CONTENT<br>MANAGEMENT<br>UNIT (CPS) | UNIT KEY<br>(CPS) |
|----------------------|-------------------------------------|-------------------|
| GAME 1               | CPS1                                | Ku1               |
| GAME 2               | CPS2                                | Ku2               |
| WEB 1                | CPS1                                | Ku1               |
| ...                  | ...                                 | ...               |
| OTHERS n             | CPSm                                | Kum               |

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FIG. 8

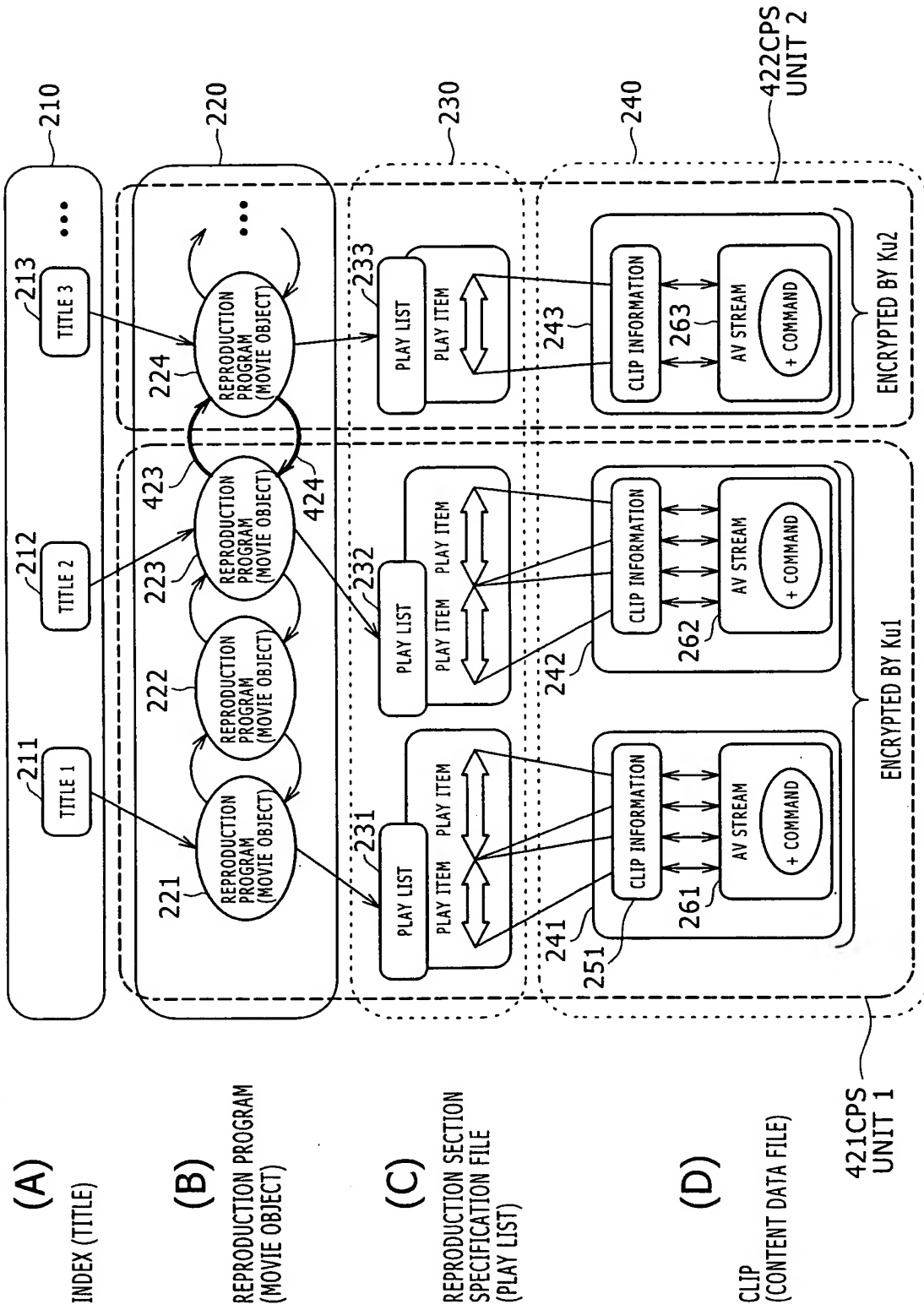


FIG. 9

| REPRODUCTION PROGRAM<br>(MOVIE OBJECT) | CONTENT<br>MANAGEMENT<br>UNIT (CPS) | UNIT KEY<br>(CPS) |
|----------------------------------------|-------------------------------------|-------------------|
| REPRODUCTION PROGRAM 1                 | CPS1                                | Ku1               |
| REPRODUCTION PROGRAM 2                 | CPS1                                | Ku1               |
| REPRODUCTION PROGRAM 3                 | CPS2                                | Ku2               |
| ...                                    | ...                                 | ...               |
| REPRODUCTION PROGRAM n                 | CPSm                                | Kum               |



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FIG. 11

| REPRODUCTION SECTION<br>SPECIFICATION FILE<br>(PLAY LIST) | CONTENT<br>MANAGEMENT<br>UNIT (CPS) | UNIT KEY<br>(CPS) |
|-----------------------------------------------------------|-------------------------------------|-------------------|
| PLAY LIST 1                                               | CPS1                                | Ku1               |
| PLAY LIST 2                                               | CPS1                                | Ku1               |
| PLAY LIST 3                                               | CPS2                                | Ku2               |
| ...                                                       | ...                                 | ...               |
| PLAY LIST n                                               | CPSm                                | Kum               |

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FIG. 12

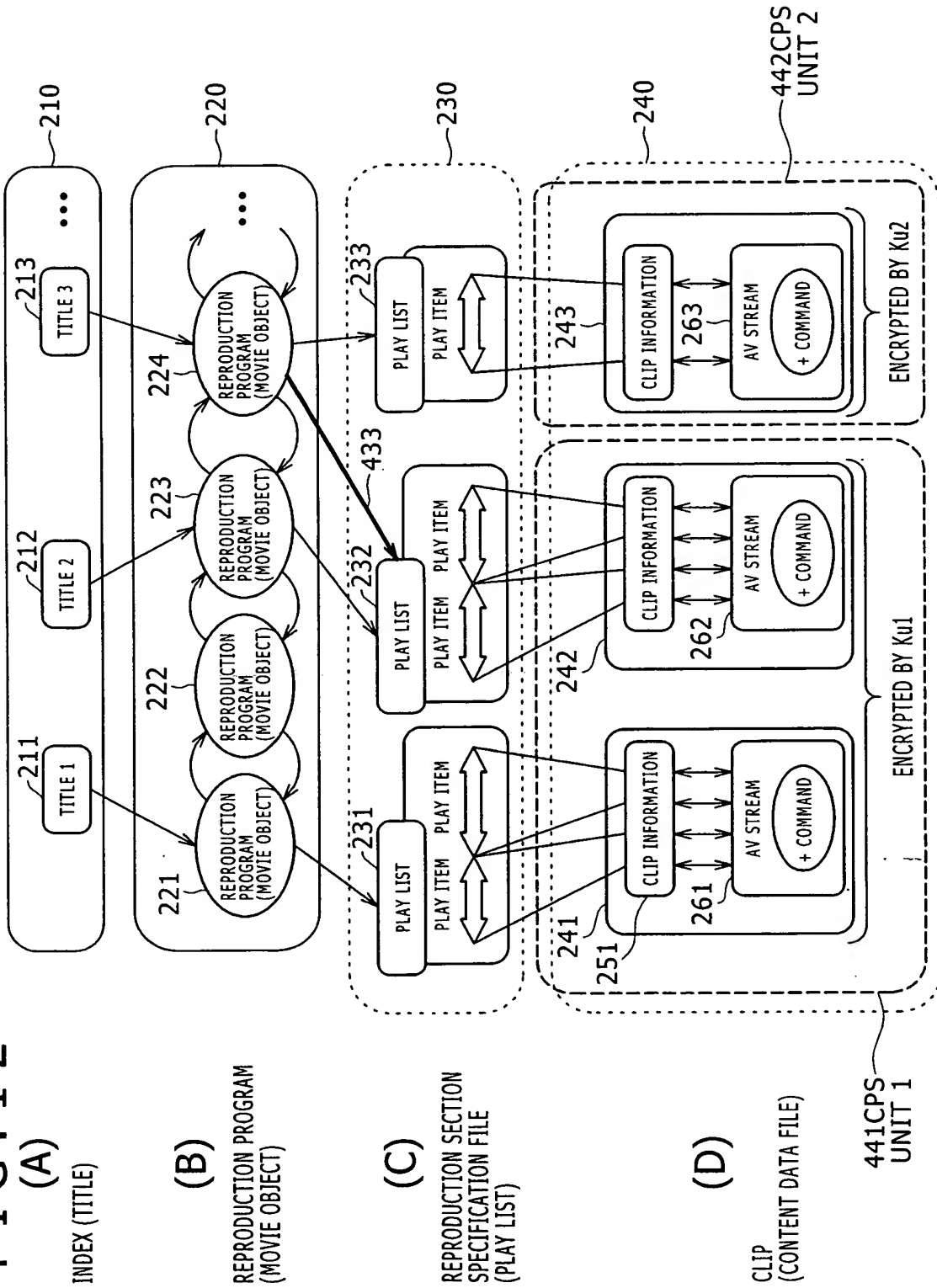
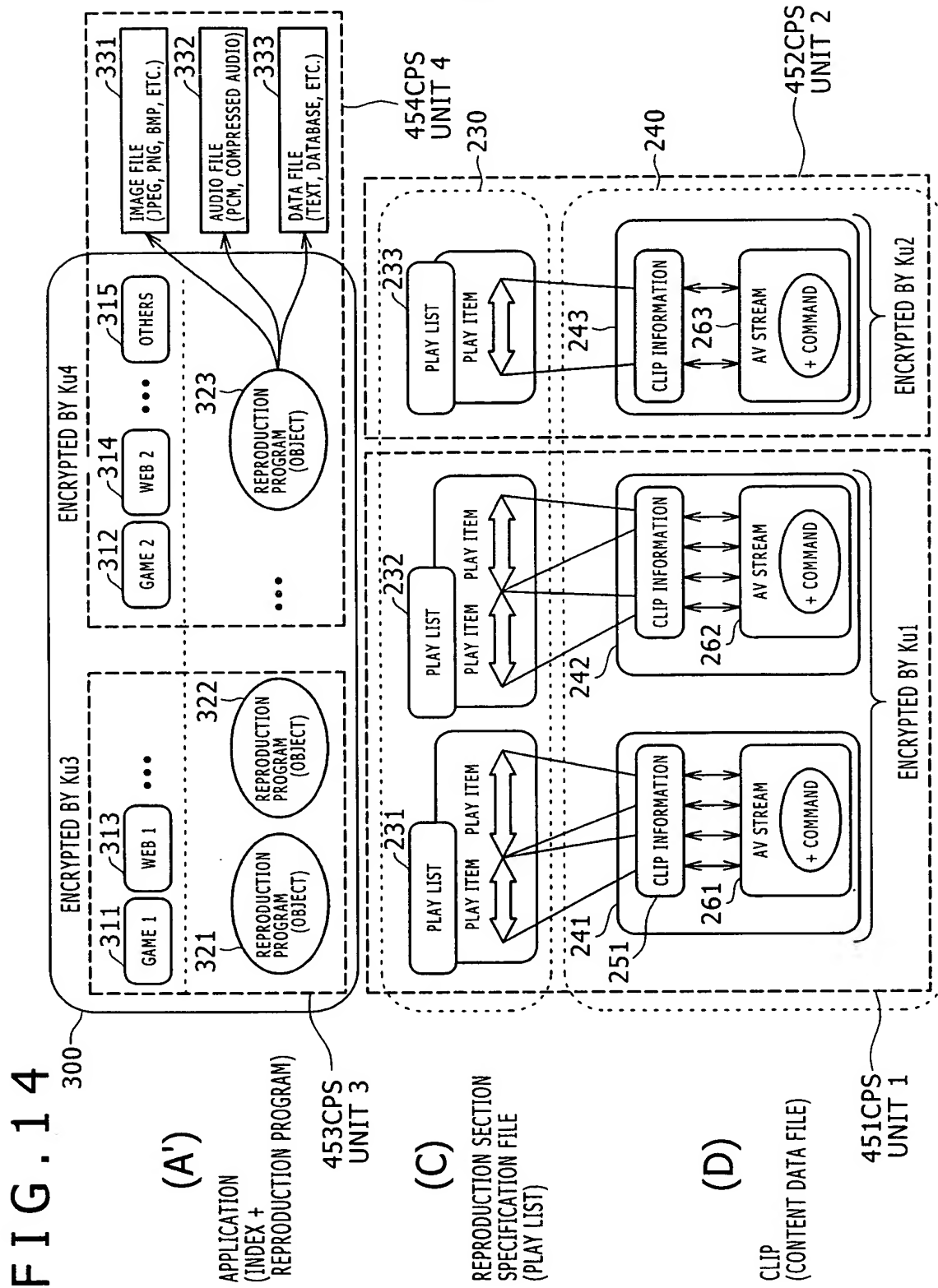


FIG. 13

| CLIP   | CONTENT<br>MANAGEMENT<br>UNIT (CPS) | UNIT KEY<br>(CPS) |
|--------|-------------------------------------|-------------------|
| CLIP 1 | CPS1                                | Ku1               |
| CLIP 2 | CPS1                                | Ku1               |
| CLIP 3 | CPS2                                | Ku2               |
| ⋮      | ⋮                                   | ⋮                 |
| CLIP n | CPSm                                | Kum               |

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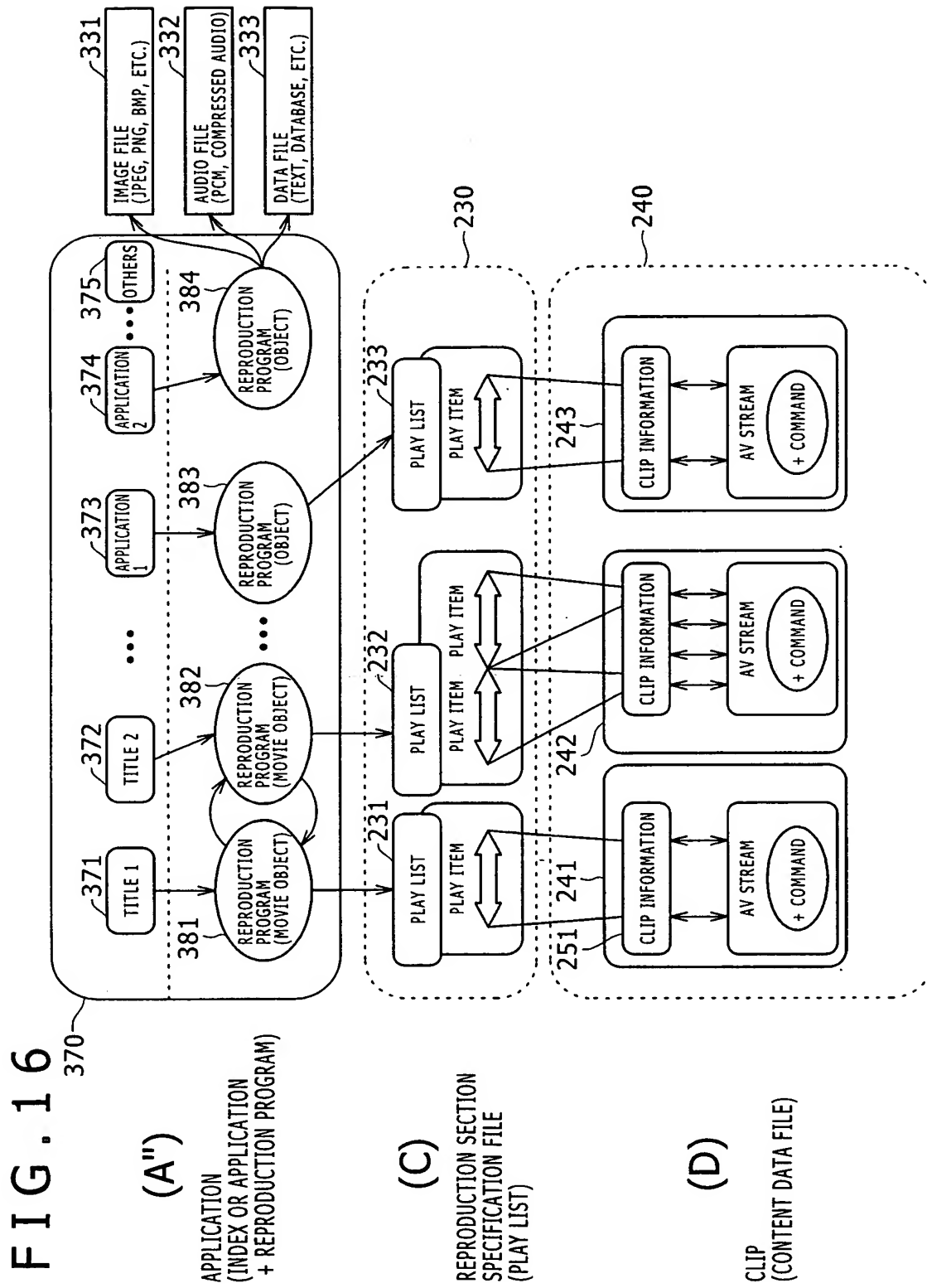


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FIG. 15

| APPLICATION<br>INDEX | REPRODUCTION SECTION<br>SPECIFICATION FILE<br>(PLAY LIST) | CONTENT<br>MANAGEMENT<br>UNIT (CPS) | UNIT KEY<br>(CPS) |
|----------------------|-----------------------------------------------------------|-------------------------------------|-------------------|
|                      | PLAY LIST 1                                               | CPS1                                | Ku1               |
|                      | PLAY LIST 2                                               | CPS1                                | Ku1               |
|                      | PLAY LIST 3                                               | CPS2                                | Ku2               |
| GAME 1               |                                                           | CPS3                                | Ku3               |
| GAME 2               |                                                           | CPS4                                | Ku4               |
| WEB 1                |                                                           | CPS3                                | Ku3               |
| ...                  | ...                                                       | ...                                 | ...               |
| OTHERS n             |                                                           | CPSm                                | Kum               |

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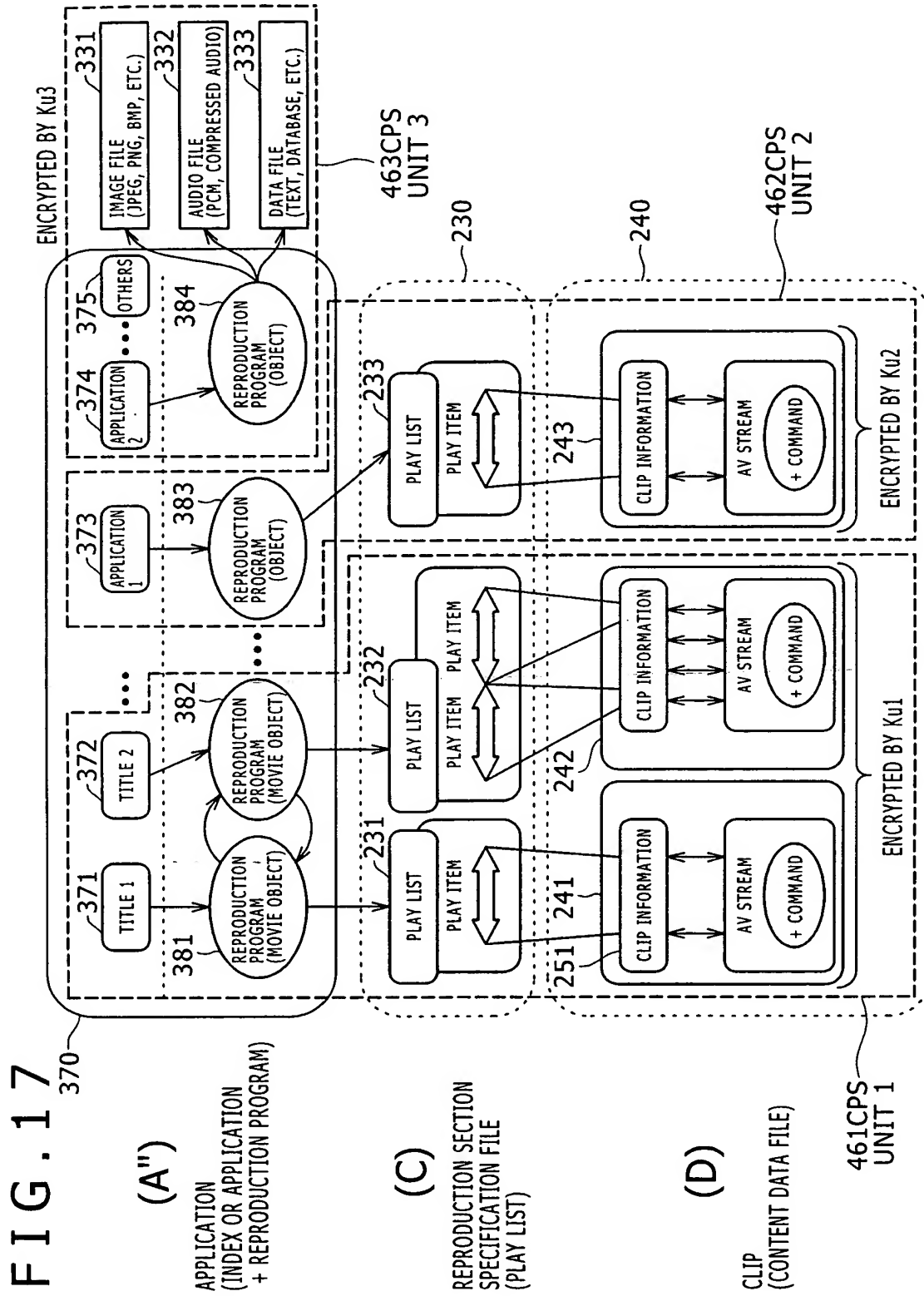
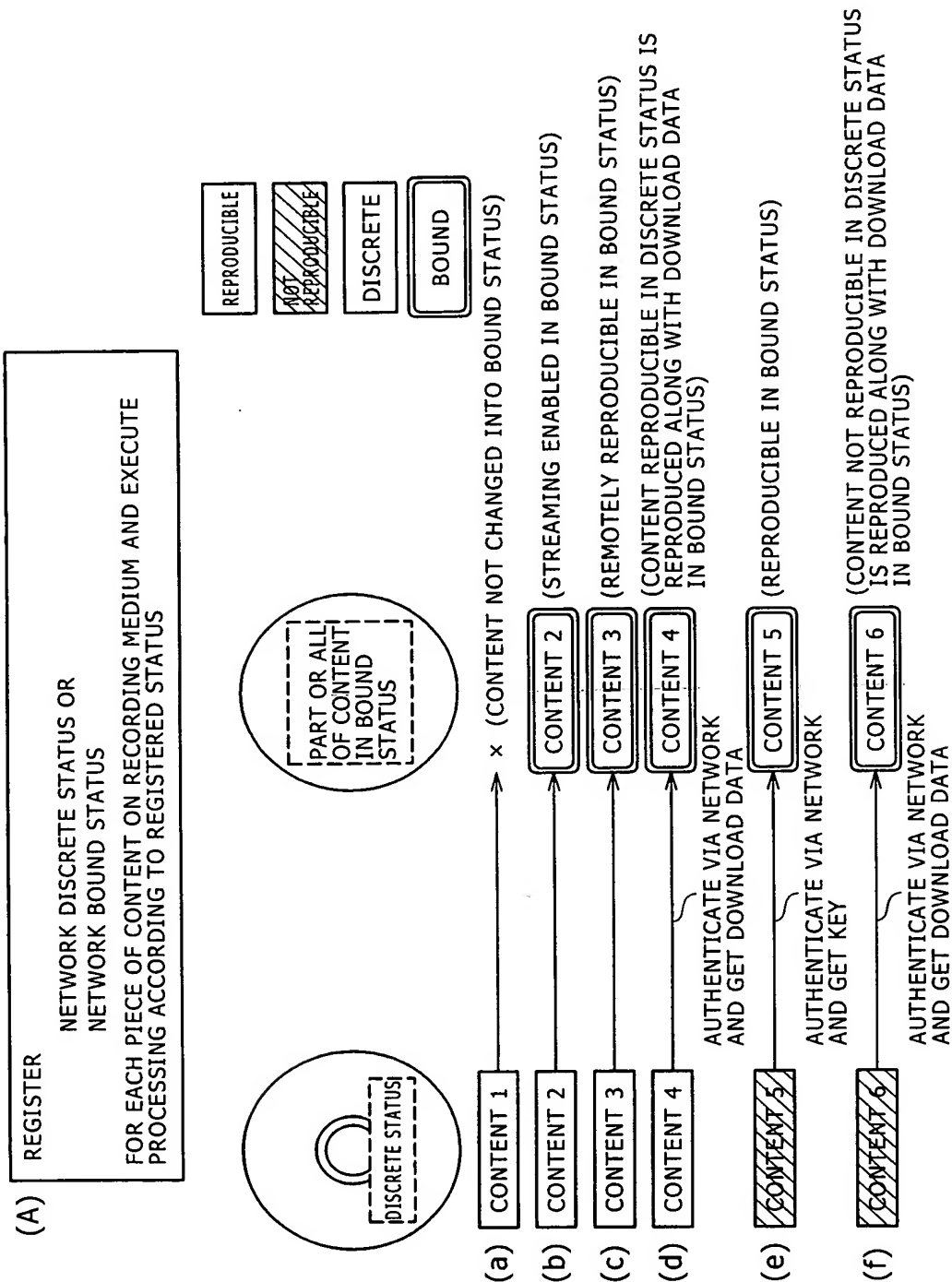


FIG. 18

| INDEX OR<br>APPLICATION FILE ON<br>APPLICATION LAYER | CONTENT<br>MANAGEMENT<br>UNIT (CPS) | UNIT KEY<br>(CPS) |
|------------------------------------------------------|-------------------------------------|-------------------|
| TITLE 1                                              | CPS1                                | Ku1               |
| TITLE2                                               | CPS1                                | Ku1               |
| APPLICATION 1                                        | CPS2                                | Ku2               |
| APPLICATION 2                                        | CPS3                                | Ku3               |
| ...                                                  | ...                                 | ...               |
| OTHERS n                                             | CPSm                                | Kum               |

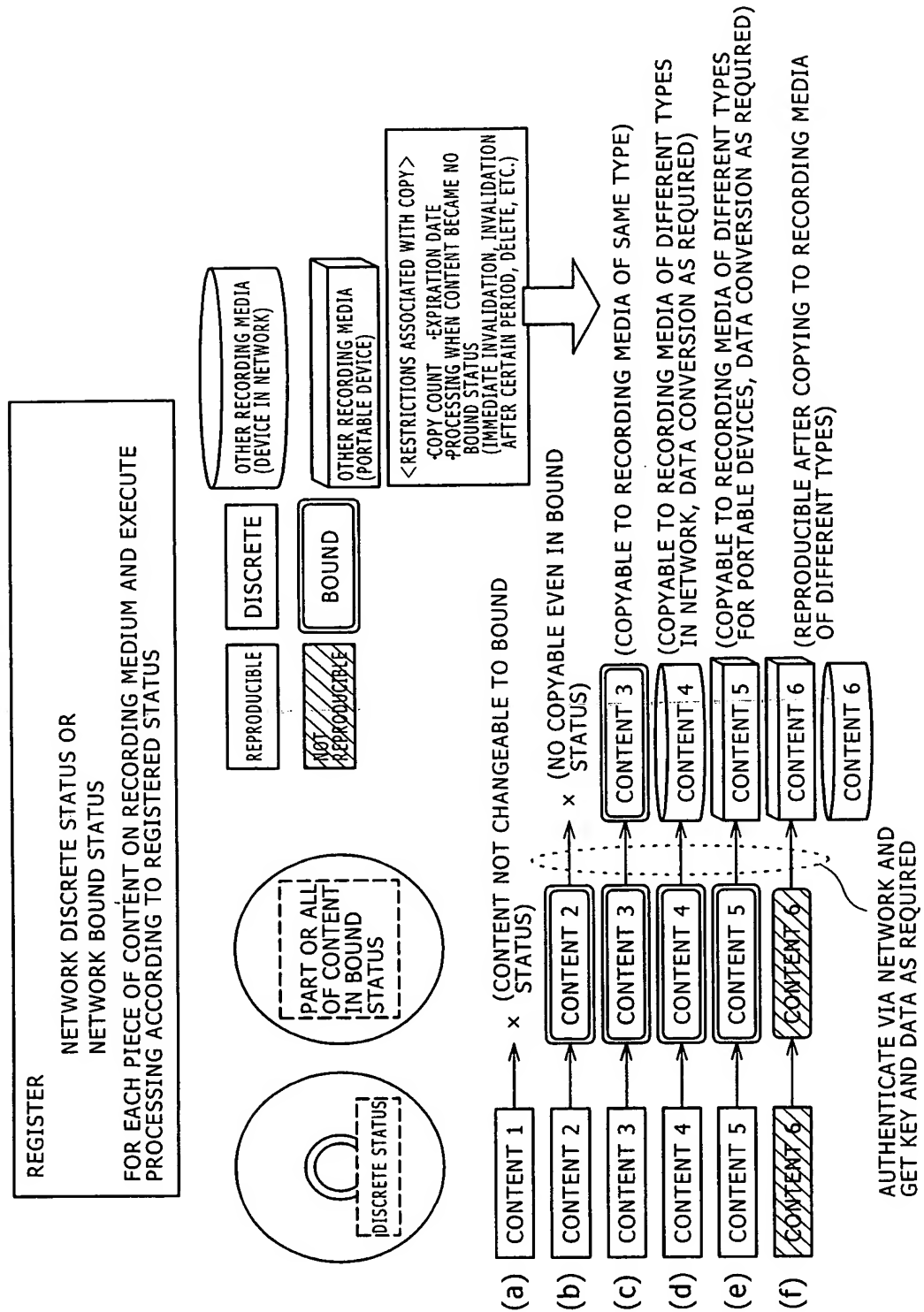
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FIG. 19



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FIG. 20



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FIG. 21

| CONTENT<br>MANAGEMENT<br>UNIT (CPS) | INITIAL STATUS     | CURRENT STATUS |
|-------------------------------------|--------------------|----------------|
| CPS1                                | Discrete only      | Discrete       |
| CPS2                                | Discrete initially | Bound          |
| CPS3                                | Bound only         | Bound          |
| CPS4                                | Bound initially    | Discrete       |
| ⋮<br>⋮<br>⋮                         | ⋮<br>⋮<br>⋮        | ⋮<br>⋮<br>⋮    |
| CPSm                                | Discrete only      | Discrete       |

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# FIG. 22

| Field NAME                        | num of bits |
|-----------------------------------|-------------|
| Num_of_Content                    | 16          |
| for(i=0; i<Num_of_Content; i++){  |             |
| CCI_and_other_info_for_Content[i] | 128         |
| }                                 |             |

|                                                                                                                                                              |              |                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------|
| CONTENTS OF CCI_and_other_info_for_Content[i] : PART OR ALL OF THE INFORMATION SHOWN BELOW IS HELD BY FLAG OR VALUE; ANY NUMBER OF BITS MAY BE USED BY VALUE | (FLAG/VALUE) | (CONTENTS)                                                                                  |
| <OPERATION IN DISCRETE STATUS>                                                                                                                               | FLAG         | OK/NG                                                                                       |
| REPRODUCTION                                                                                                                                                 | VALUE        | CONNECTION TO KEY DISTRIBUTION SERVER, LOADING OF MEMORY CARD STORING KEY, ETC.             |
| METHOD OF REPRODUCING CONTENT THAT CANNOT BE REPRODUCED IN DISCRETE STATUS                                                                                   | VALUE        | INDEX VALUE TO SERVER LIST                                                                  |
| SERVER SPECIFICATION                                                                                                                                         | VALUE        | COMPATIBILITY INFORMATION FOR REPRODUCING CONTENT BY ANOTHER DEVICE IN NETWORK              |
| <OPERATION IN BOUND STATUS>                                                                                                                                  | VALUE        | METHOD AVAILABLE WHEN CONVERTING CONTENT SO AS TO BE REPRODUCED BY ANOTHER DEVICE           |
| COPY/STREAMING COMPATIBILITY INFORMATION                                                                                                                     | FLAG         | OK/NG                                                                                       |
| METHOD OF DATA CONVERSION AT COPY/STREAMING                                                                                                                  | VALUE        | NUMBER OF TIMES COPY IS MADE                                                                |
| COPYABILITY TO RECORDING MEDIA OF SAME TYPE IN NETWORK                                                                                                       | VALUE        | EXPIRATION DATE OF COPY                                                                     |
| COPY COUNT TO RECORDING MEDIA OF SAME TYPE IN NETWORK                                                                                                        | FLAG         | OK/NG                                                                                       |
| EXPIRATION DATE OF COPY TO RECORDING MEDIA OF SAME TYPE IN NETWORK                                                                                           | VALUE        | NUMBER OF TIMES COPY IS MADE                                                                |
| COPYABILITY TO RECORDING MEDIA OF DIFFERENT TYPE IN NETWORK                                                                                                  | VALUE        | EXPIRATION DATE OF COPY                                                                     |
| COPY COUNT TO RECORDING MEDIA OF DIFFERENT TYPE IN NETWORK                                                                                                   | FLAG         | OK/NG                                                                                       |
| EXPIRATION DATE OF COPY TO RECORDING MEDIA OF DIFFERENT TYPE IN NETWORK                                                                                      | VALUE        | INDEX VALUE FOR SPECIFYING DATA TO BE COPIED                                                |
| AVAILABILITY OF DATA TO BE COPIED TO RECORDING MEDIA OF DIFFERENT TYPE IN NETWORK                                                                            | FLAG         | OK/NG                                                                                       |
| SPECIFICATION OF DATA TO BE COPIED TO RECORDING MEDIA OF DIFFERENT TYPE IN NETWORK                                                                           | VALUE        | NUMBER OF TIMES COPY IS MADE                                                                |
| COPYABILITY TO PORTABLE DEVICE                                                                                                                               | VALUE        | EXPIRATION DATE OF COPY                                                                     |
| COPY COUNT TO PORTABLE DEVICE                                                                                                                                | FLAG         | OK/NG                                                                                       |
| EXPIRATION DATE OF COPY TO PORTABLE DEVICE                                                                                                                   | VALUE        | INDEX VALUE FOR SPECIFYING DATA TO BE COPIED                                                |
| AVAILABILITY OF DATA TO BE COPIED TO PORTABLE DEVICE                                                                                                         | FLAG         | OK/NG                                                                                       |
| SPECIFICATION OF DATA TO BE COPIED TO PORTABLE DEVICE                                                                                                        | VALUE        | RESTRICTION OF SUBJECT DEVICES                                                              |
| PERMISSION OF STREAMING                                                                                                                                      | FLAG         | OK/NG                                                                                       |
| SPECIFICATION OF SUBJECT THAT RECEIVES STREAMING                                                                                                             | VALUE        | RESTRICTION OF SUBJECT DEVICES                                                              |
| PERMISSION OF REMOTE REPRODUCTION                                                                                                                            | VALUE        | IMMEDIATE INVALIDATION, INVALIDATION AFTER CERTAIN PERIOD, OR DELETION OF COPY              |
| SPECIFICATION OF SUBJECT THAT RECEIVES REMOTE REPRODUCTION                                                                                                   | VALUE        | DOWNLOAD DATA TYPE (SUBTTILES, AUDIO, STILL IMAGE, ETC.)                                    |
| PROCESSING TO BE EXECUTED WHEN CONTENT BECAME NO BOUND STATUS                                                                                                | VALUE        | CONNECTION TO DOWNLOAD SERVER, LOADING OF MEMORY CARD STORING DATA, ETC.                    |
| DOWNLOAD DATA TYPE                                                                                                                                           | VALUE        | INDEX VALUE TO DOWNLOAD SERVER LIST                                                         |
| DOWNLOAD DATA ACQUISITION METHOD                                                                                                                             | FLAG         | DEPEND ON OPERATION CONTROL INFORMATION ACQUIRED FROM SERVER                                |
| SPECIFICATION OF DOWNLOAD SERVER                                                                                                                             | VALUE        | INDEX VALUE TO SERVER LIST INDICATIVE OF SERVER FOR ACQUIRING OPERATION CONTROL INFORMATION |
| ACQUISITION OF OPERATION CONTROL INFORMATION FROM SERVER                                                                                                     |              |                                                                                             |
| SPECIFICATION OF SERVER FOR ACQUIRING OPERATION CONTROL INFORMATION                                                                                          |              |                                                                                             |

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# FIG. 23

(A)

PUTTING ALL INFORMATION INTO ONE LOOP

| Field NAME                          | num of bits |
|-------------------------------------|-------------|
| Num. of Content                     | 16          |
| for(i=0;i<Num. of Content;i++){     |             |
| Num. of function[i]                 | 16          |
| for(j=0;j<Num. of function[i];j++){ |             |
| CCI and other_info_length           | 16          |
| CCI and other_info_type             | 8           |
| CCI and other_info_value            | 8           |
| Additional_info                     | N           |
| }                                   |             |
| }                                   |             |

(B)

DIVIDING LOOP BY STATUS

| Field NAME                          | num of bits |
|-------------------------------------|-------------|
| Num. of Content                     | 16          |
| for(i=0;i<Num. of Content;i++){     |             |
| Num. of Discrete function[i]        | 16          |
| for(j=0;j<Num. of function[i];j++){ |             |
| CCI and other_info_for_length       | 16          |
| CCI and other_info_type             | 8           |
| CCI and other_info_value            | 8           |
| Additional_info                     | N           |
| }                                   |             |
| Num. of Bound function[i]           | 16          |
| for(j=0;j<Num. of function[i];j++){ |             |
| CCI and other_info_length           | 16          |
| CCI and other_info_type             | 8           |
| CCI and other_info_value            | 8           |
| Additional_info                     | N           |
| }                                   |             |
| }                                   |             |

LIST OF CCI\_and\_other\_info\_for\_type AND CONTENTS OF CCI\_and\_other\_info\_value AND Additional\_info

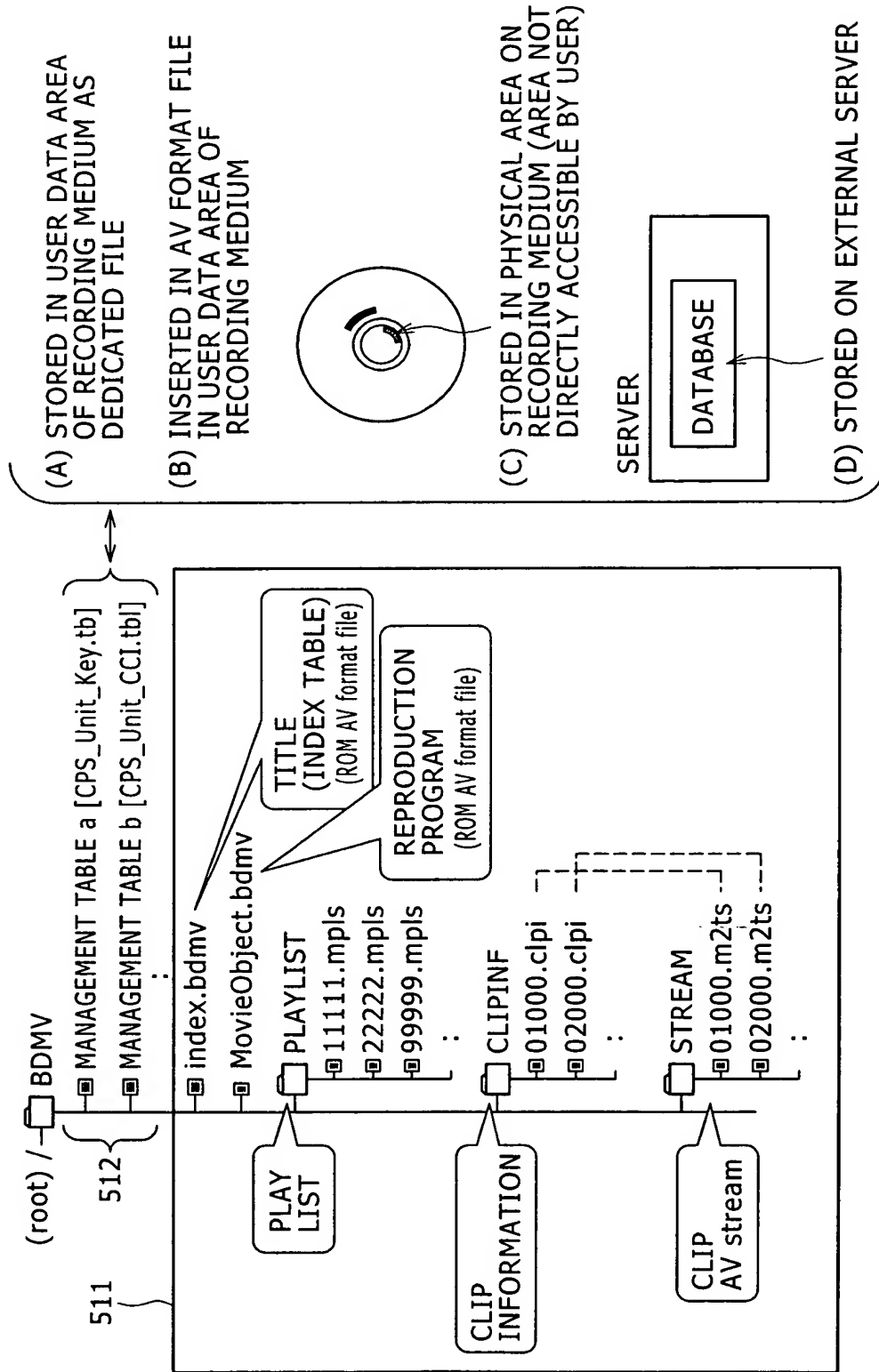
|                                                                        |                                   |                                                                                                                                                                                      |
|------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "CCI_and_other_info_type"                                              | "CCI_and_other_info_value"        | "Additional_info"                                                                                                                                                                    |
| REPRODUCTION IN DISCRETE STATUS                                        | OK/NG                             | METHOD OF REPRODUCING CONTENT THAT IS NOT REPRODUCIBLE IN DISCRETE STATUS<br>SPECIFICATION OF SERVER                                                                                 |
| COPY TO RECORDING MEDIA OF SAME TYPE IN NETWORK                        | OK/NG                             | COPY COUNT, EXPIRATION DATE                                                                                                                                                          |
| COPY TO RECORDING MEDIA OF DIFFERENT TYPE IN NETWORK                   | OK/NG                             | OF DATA FOR COPY, SPECIFICATION OF METHOD OF DATA CONVERSION FOR COPY                                                                                                                |
| COPY TO PORTABLE DEVICE                                                | OK/NG                             | COPY COUNT, EXPIRATION DATE, AVAILABILITY OF DATA FOR COPY, SPECIFICATION<br>OF DATA FOR COPY, SPECIFICATION OF METHOD OF DATA CONVERSION FOR COPY                                   |
| STREAMING IN NETWORK                                                   | OK/NG                             | SPECIFICATION OF DEVICE SUBJECT TO STREAMING<br>AVAILABILITY OF DATA FOR STREAMING, SPECIFICATION OF DATA FOR STREAMING,<br>SPECIFICATION OF METHOD OF DATA CONVERSION FOR STREAMING |
| REMOTE REPRODUCTION IN NETWORK                                         | OK/NG                             | SPECIFICATION OF DEVICE SUBJECT TO REMOTE REPRODUCTION                                                                                                                               |
| PROCESSING TO BE EXECUTED WHEN BOUND STATUS IS<br>CLEARED              | VALUE                             | IMMEDIATE INVALIDATION, INVALIDATION AFTER CERTAIN PERIOD, OR DELETION<br>OF COPY                                                                                                    |
| REPRODUCTION OF DOWNLOAD DATA                                          | VALUE (DATA TYPE)                 | SPECIFICATION OF METHOD OF ACQUIRING DOWNLOAD DATA, DOWNLOAD SERVER                                                                                                                  |
| INFORMATION FOR ACQUIRING OPERATION CONTROL<br>INFORMATION FROM SERVER | VALUE                             | SPECIFICATION OF SERVER                                                                                                                                                              |
| USER-DEFINED INFORMATION                                               | UNIQUELY DEFINED BY CONTENT OWNER | UNIQUELY DEFINED BY CONTENT OWNER                                                                                                                                                    |

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FIG. 24



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FIG. 25

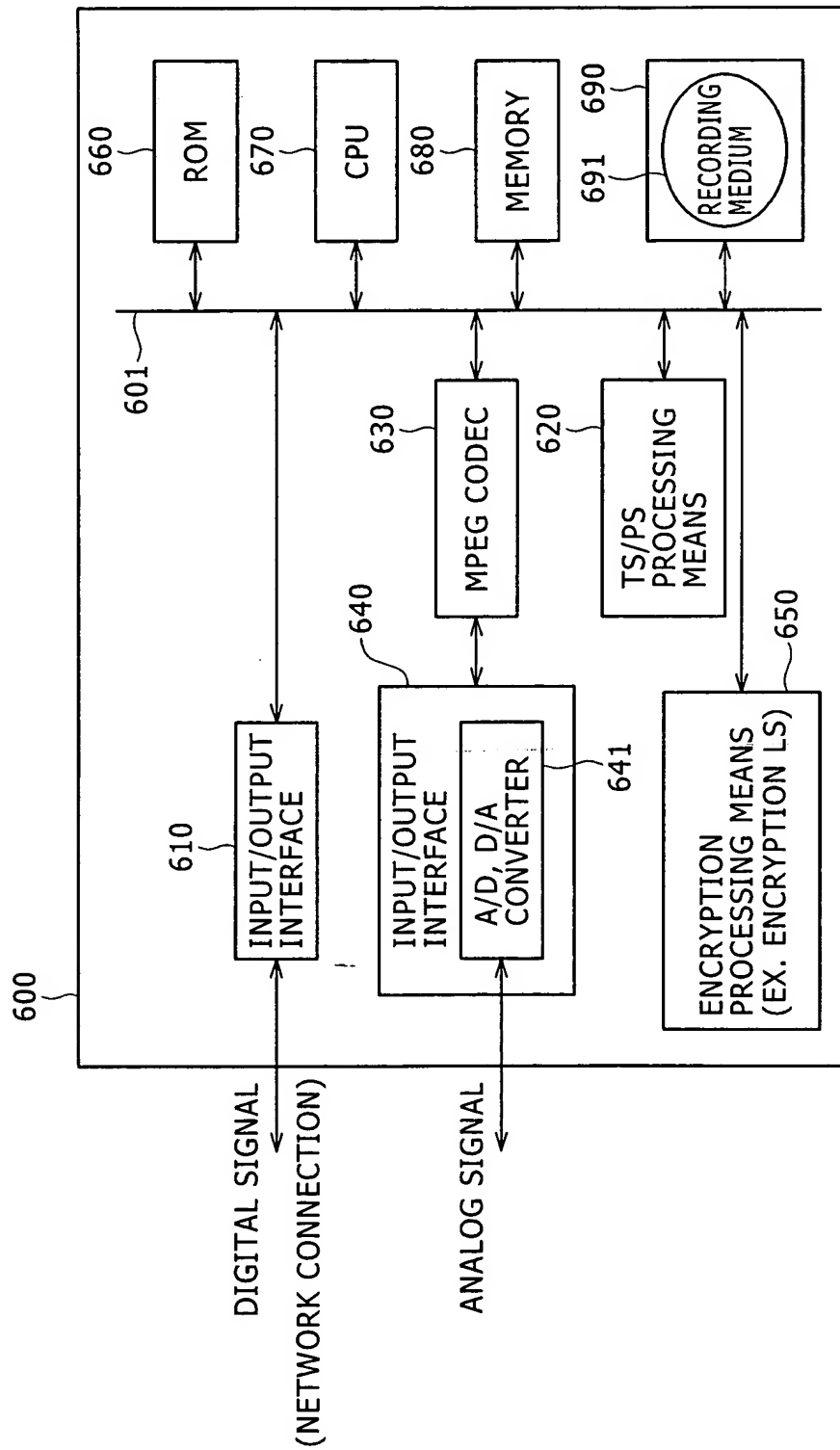
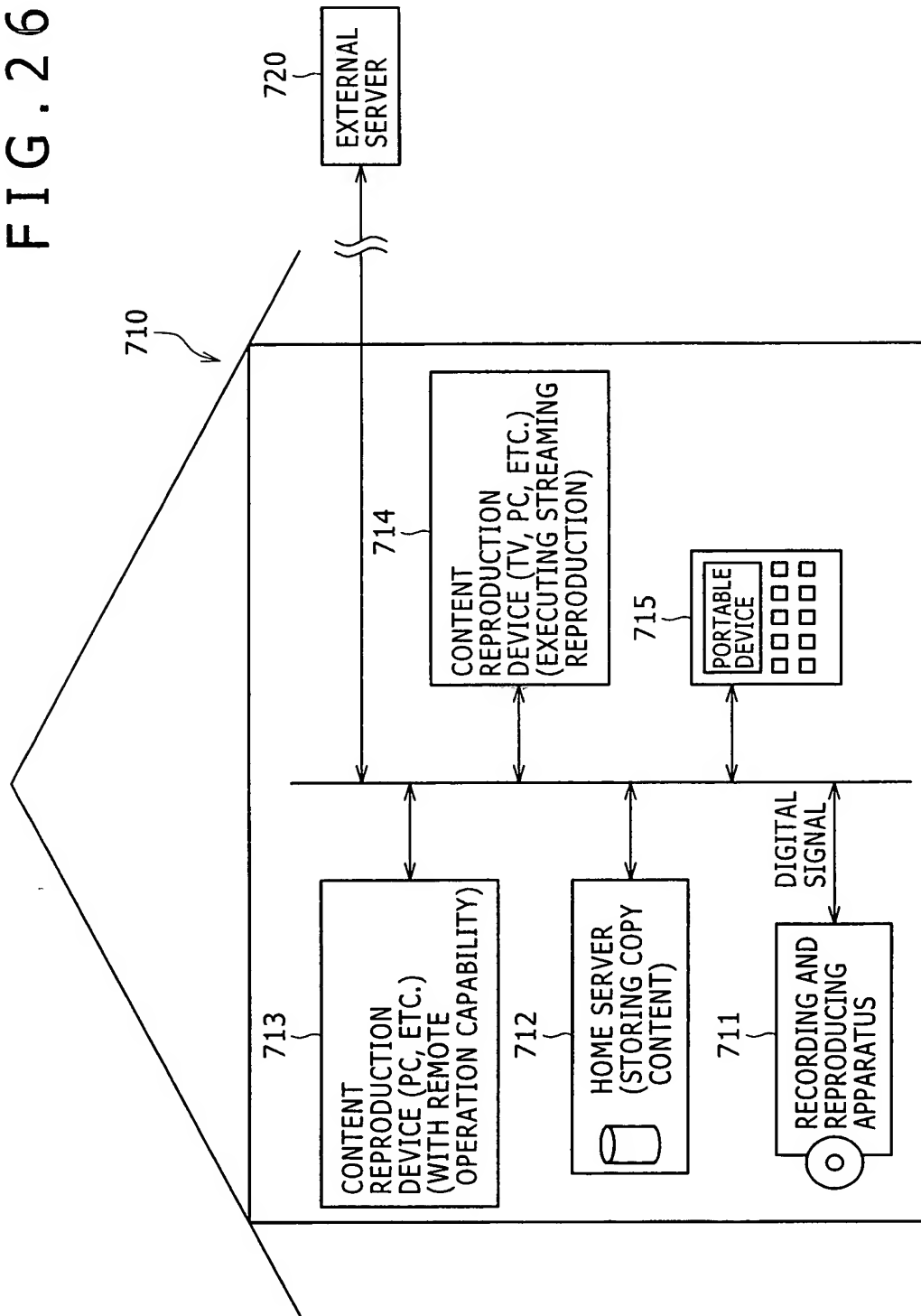
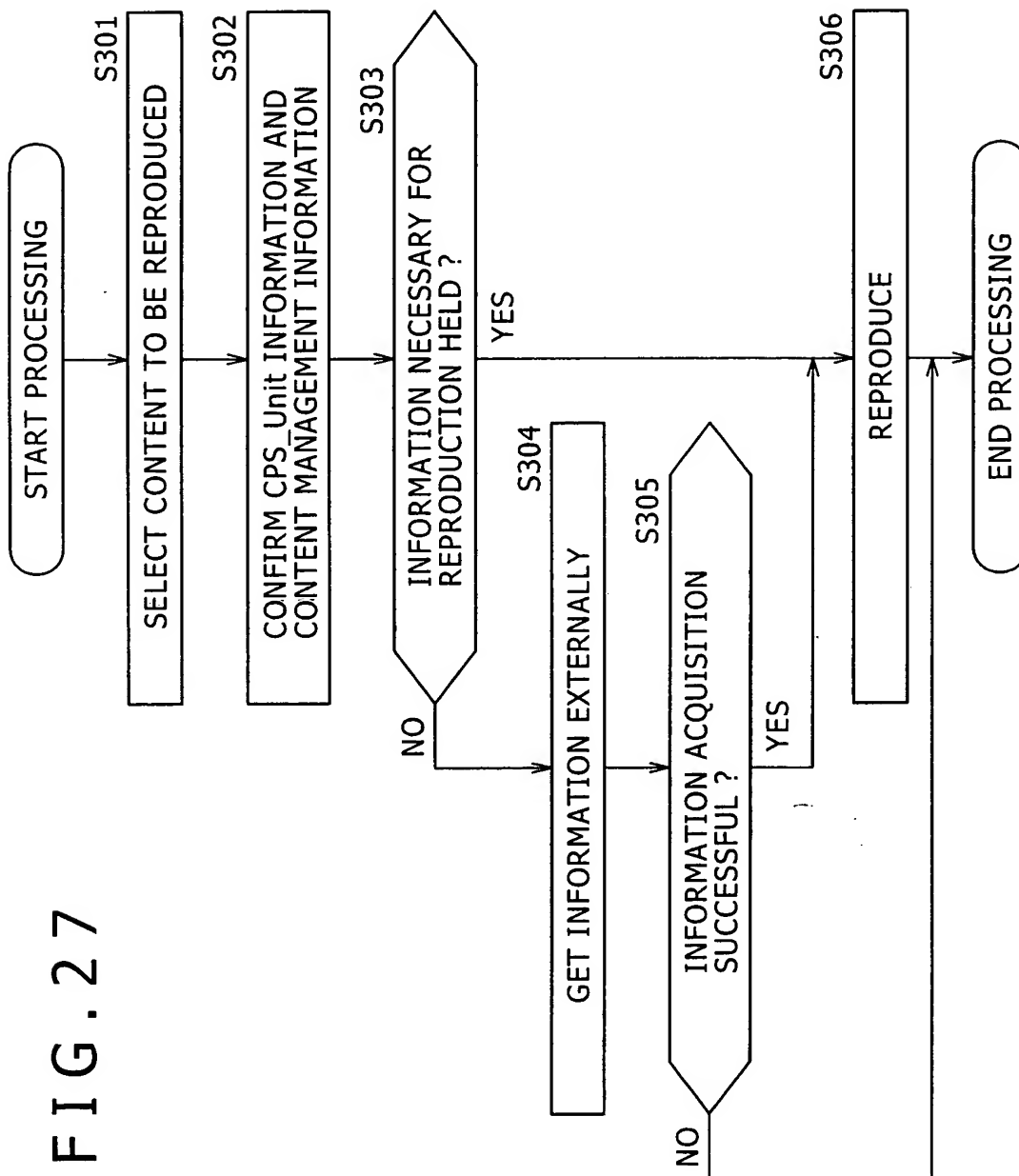


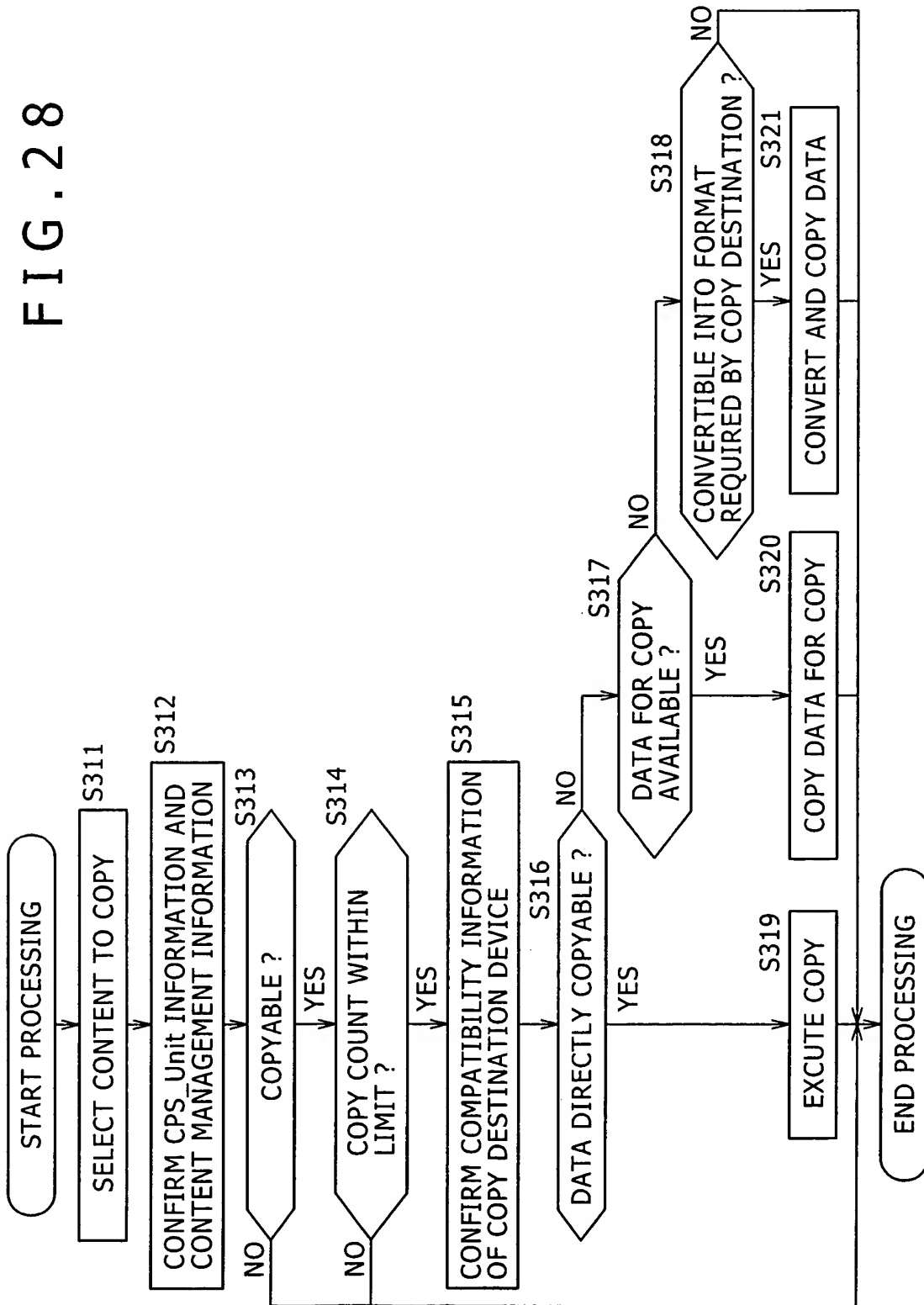
FIG. 26



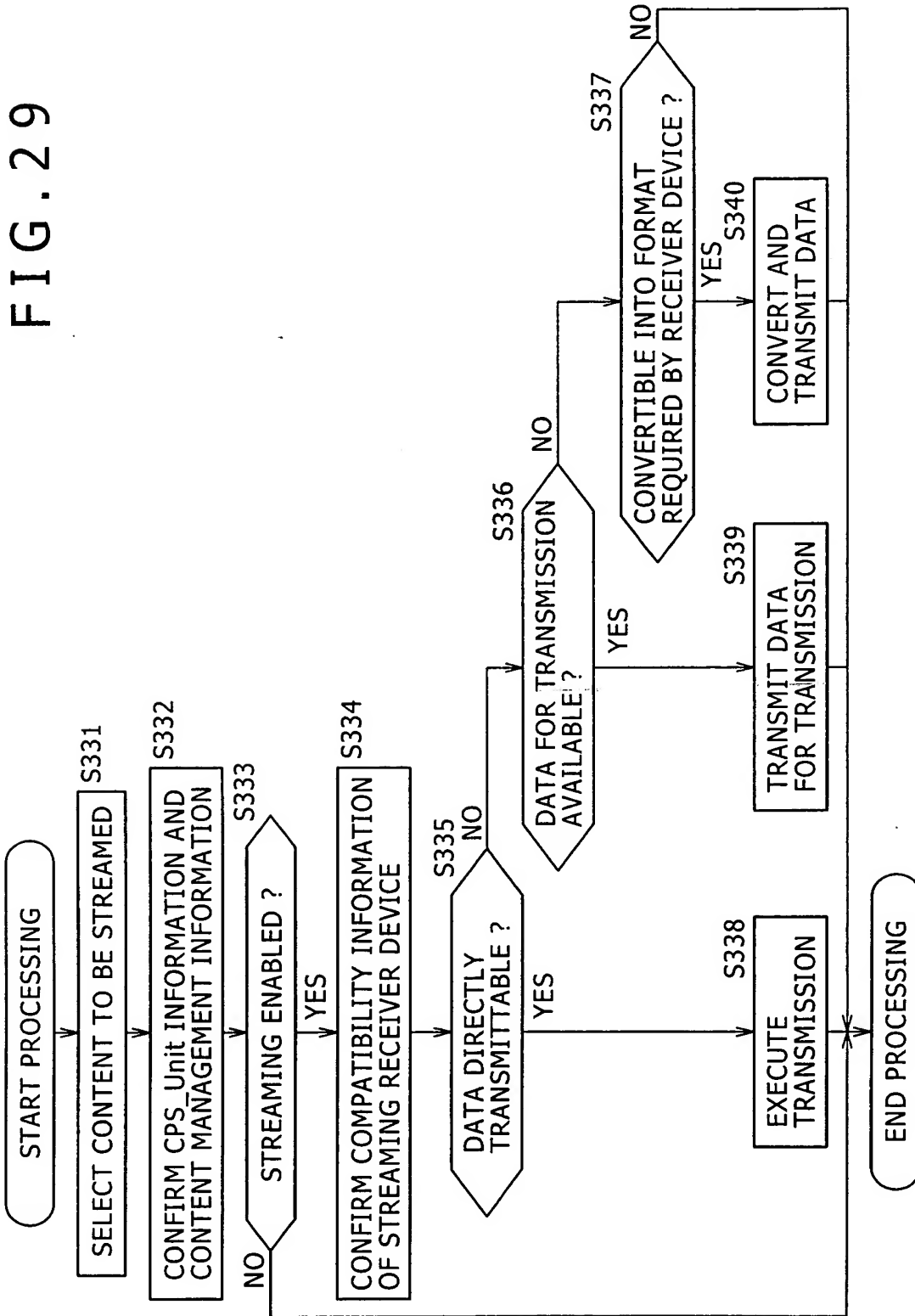
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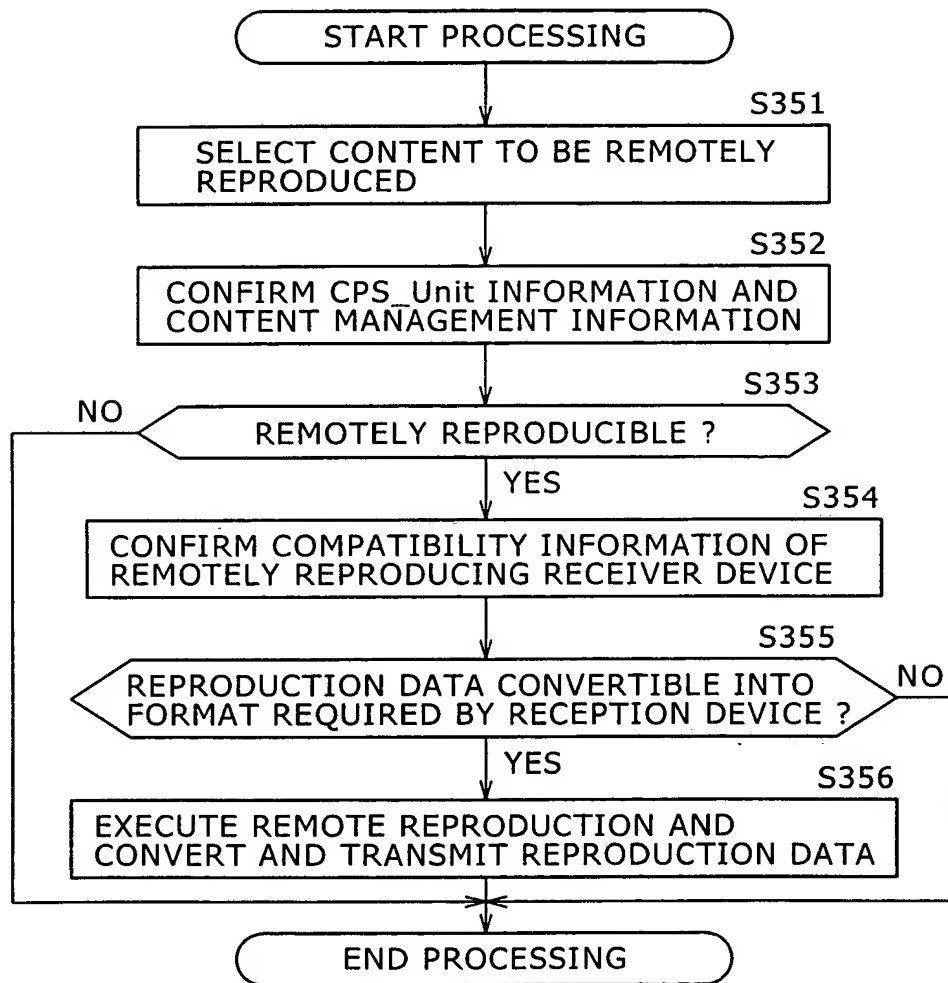


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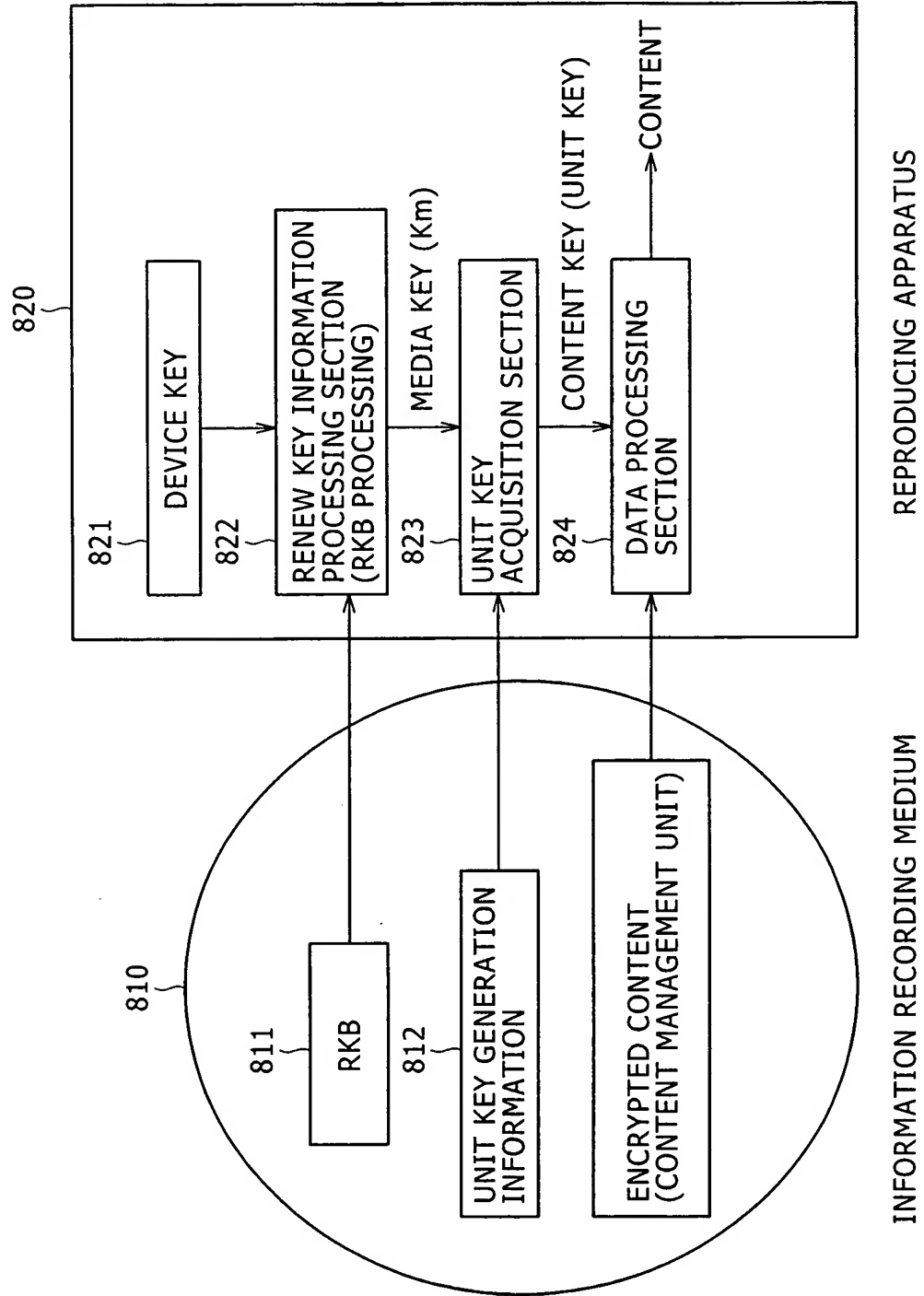
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## FIG. 30



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FIG. 31



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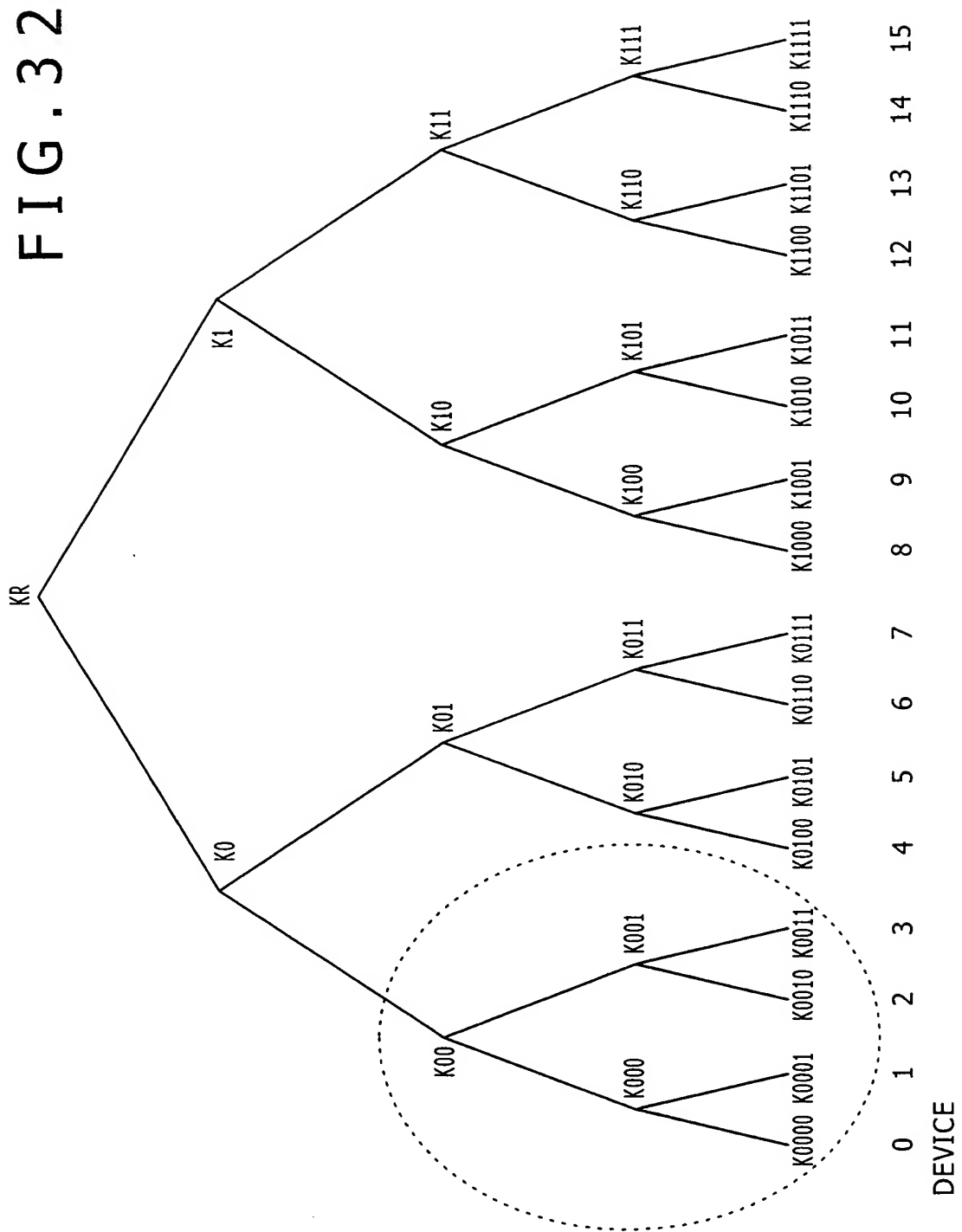
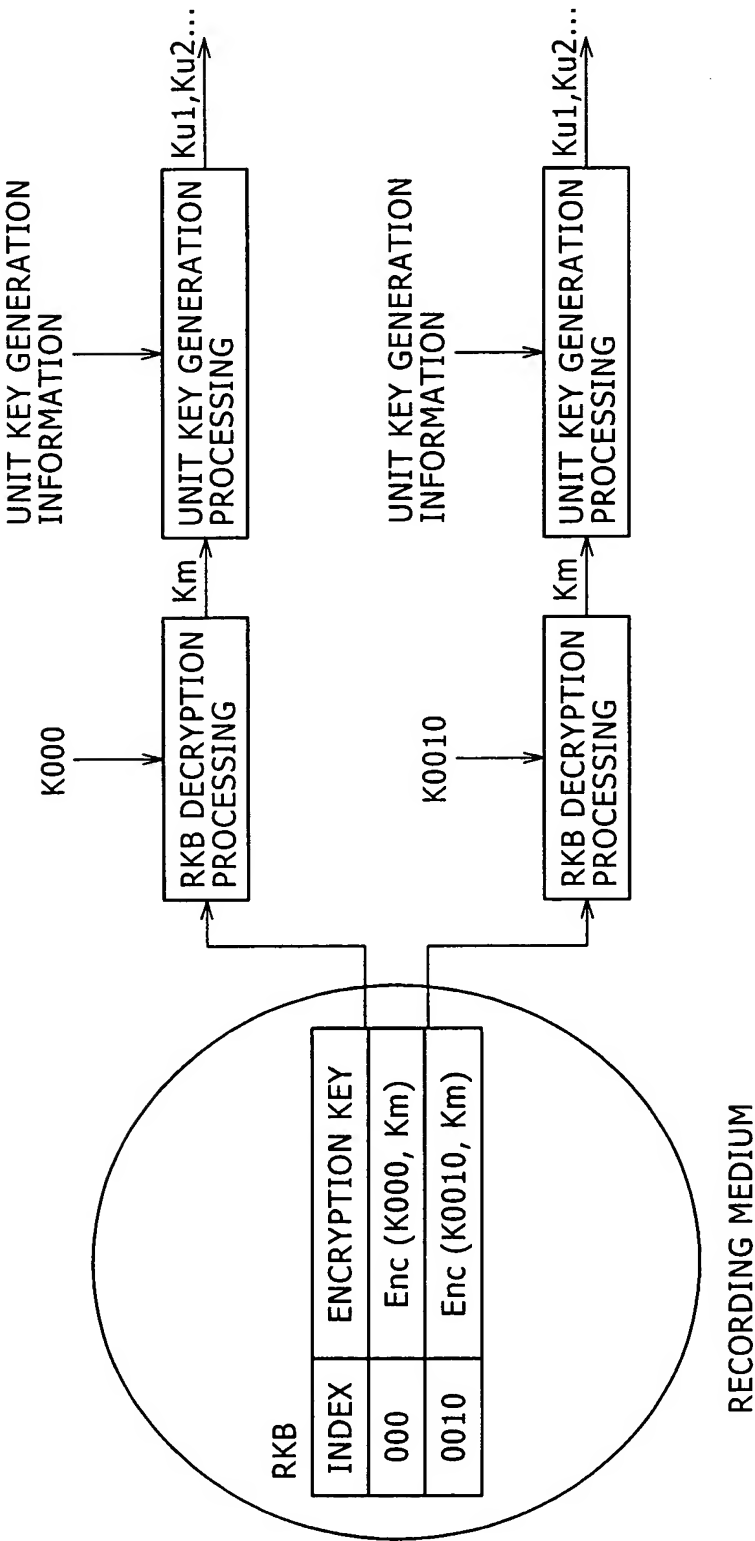
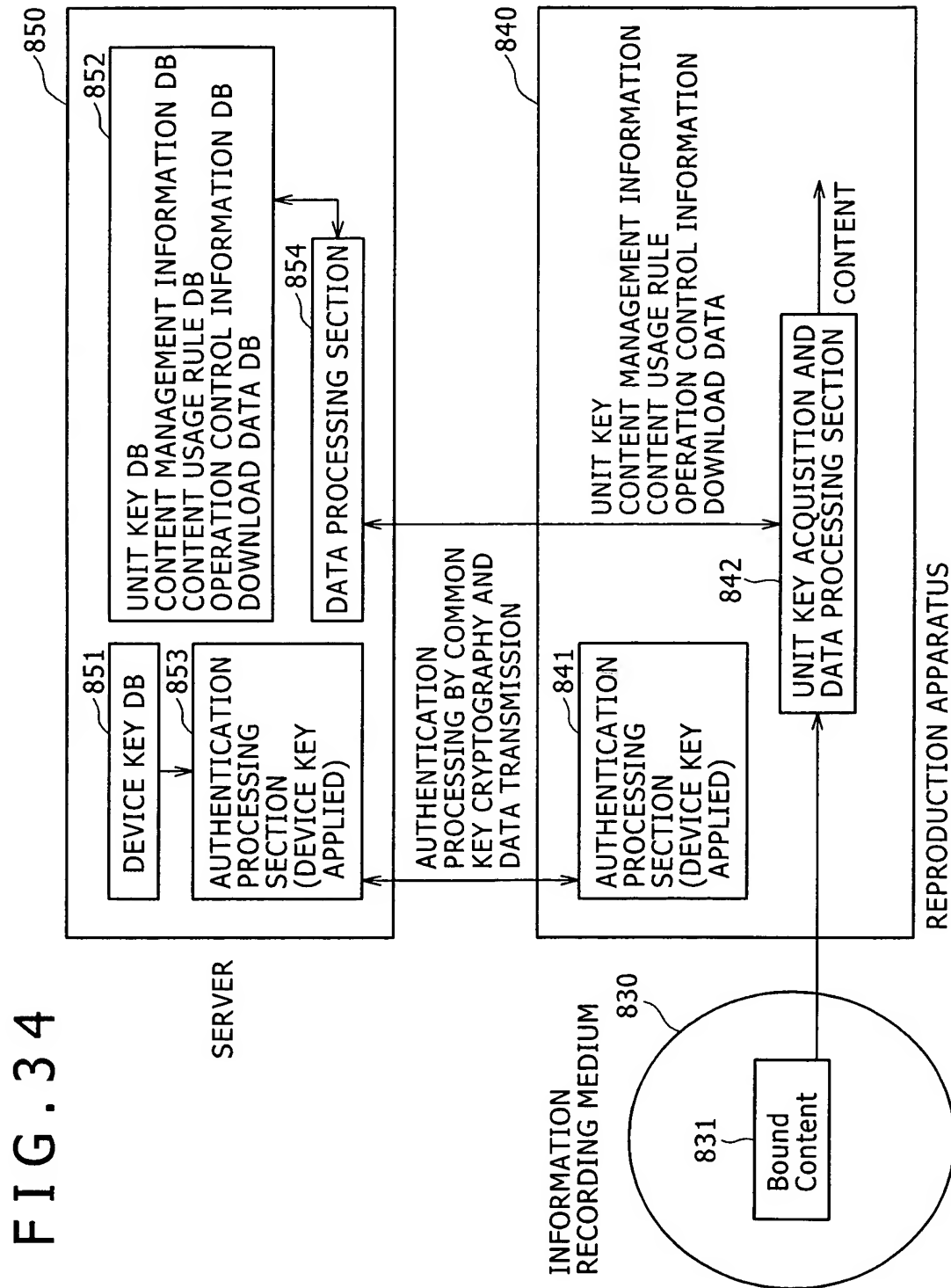


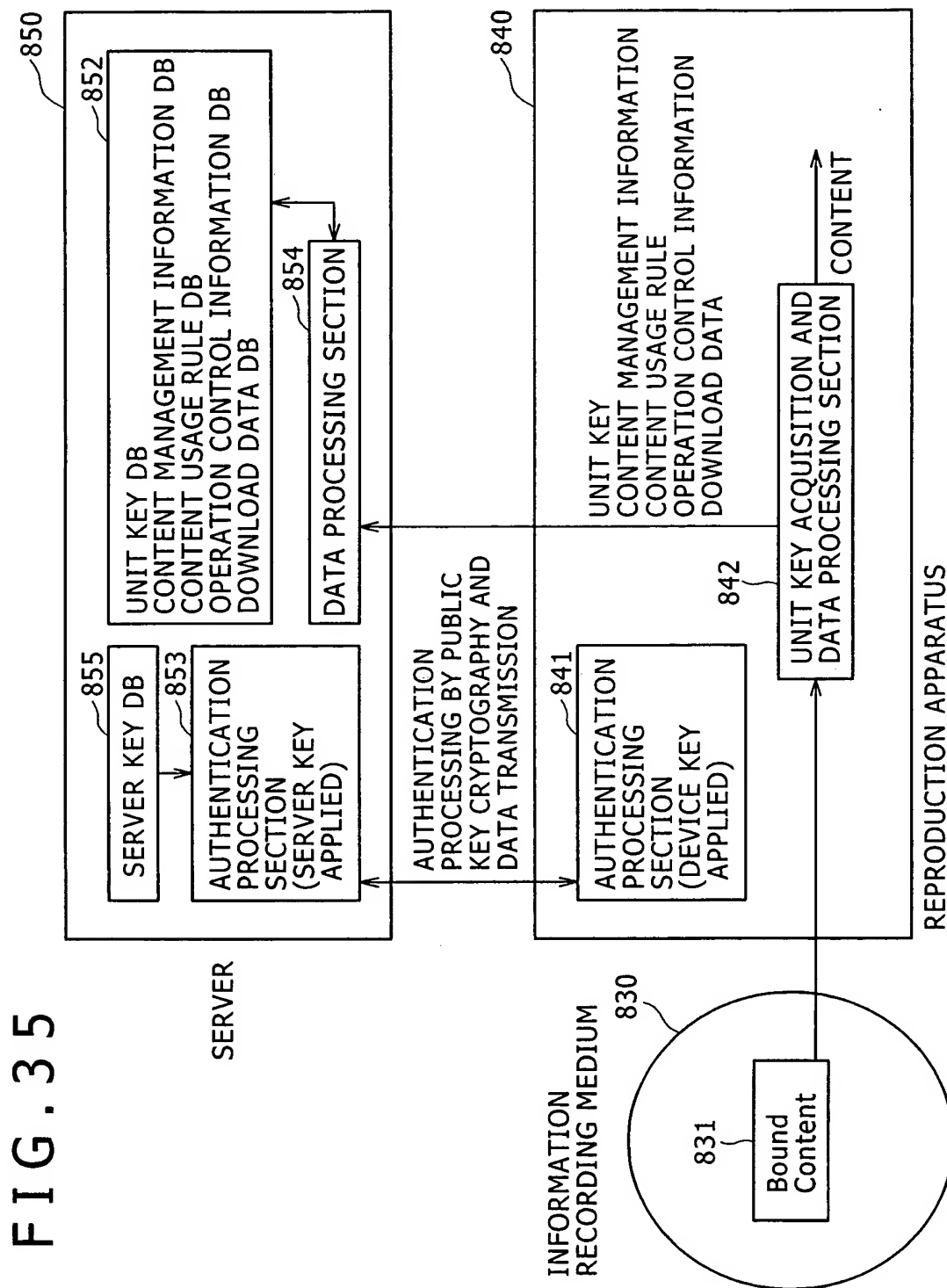
FIG. 33



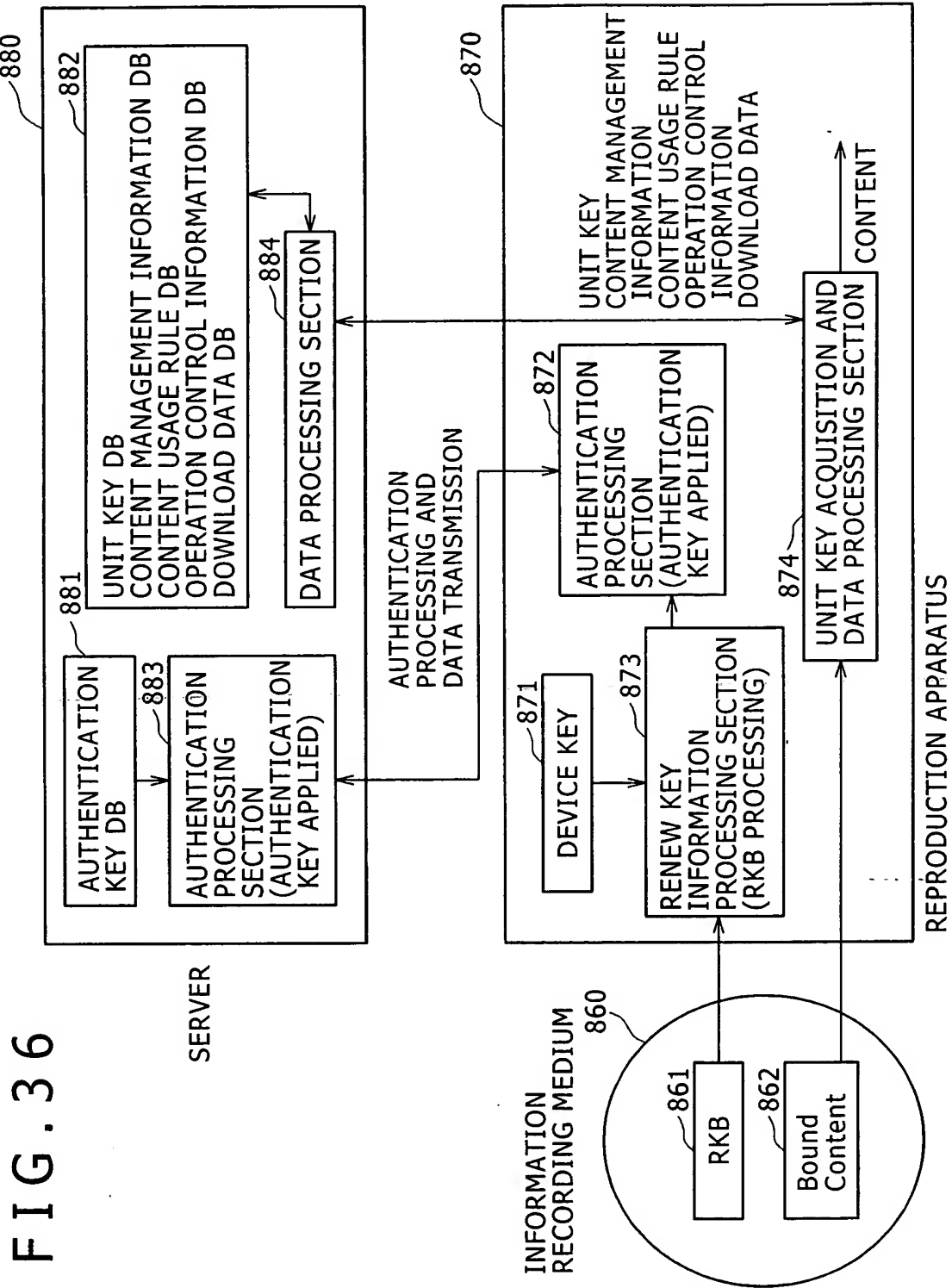
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